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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,209	04/28/2005	Chia Shun Shih	P-109410 (PCT) (US)	9108
<div>7590 09/21/2007</div> <div>Thomas E Sisson Jackson Walker 112 E Pecan Street Suite 2100 San Antonio, TX 78205</div> <div>EXAMINER RHEE, JANE J</div> <div>ART UNIT PAPER NUMBER</div> <div>1745</div> <div>MAIL DATE DELIVERY MODE</div> <div>09/21/2007 PAPER</div>				

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/533,209

Applicant(s)

SHIH, CHIA SHUN

Examiner

Jane Rhee

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 June 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Rejections Withdrawn

1. The 35 U.S.C. 102(b) rejection of claims 1-6 anticipated by Breen has been withdrawn due to applicant's amendment filed on 6/29/2007.
2. The 35 U.S.C. 103(a) rejection of claims 7-8 unpatentable over Breen in view of Abrams has been withdrawn due to applicant's amendment filed on 6/29/2007.

New Rejections

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Breen in view of Inomata et al. (5401557).

As to claim 1, Breen discloses a reinforced composite paper product comprising: at least a first paper layer and at least a second paper layer (col. 2 lines 63-64) a plurality of first fiber strands extending across said first paper layer in a first direction (figure 1 number 19) a plurality of second fiber strands extending across said first fiber strands in a second direction (figure 1 number 21), a binding composition disposed between said first paper layer and said second paper layer, said composition retaining said first fiber strands and said second fiber strands in said directions and binding said

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strands between said first and said second paper layers and further binding said first paper layer to said second paper layer (col. 2 line 65 teaches lamination).

Breen fail to disclose polyvinyl alcohol fiber strands and a polyvinyl alcohol binding composition.

Inomata et al. teaches reinforced tape comprising two layers of paper, reinforcing threads of polyvinyl alcohol and polyvinyl alcohol laminating adhesive that is used to laminate upper and lower paper layers together (col. 2 lines 5-51) for the purpose of providing a water soluble adhesive and a water soluble thread in order to create a regeneratable thread reinforced gummed tape (col. 2 lines 2).

Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide, Breen with polyvinyl alcohol fiber strands and a polyvinyl alcohol binding composition in order to provide a water soluble adhesive and a water soluble thread so as to create a regeneratable thread reinforced gummed tape (col. 2 lines 2) as taught by Inomata et al.

As to claim 2, Breen discloses a reinforced composite paper product comprising: a plurality of paper layers; a plurality of first fiber strands extending in a first direction between any two adjacent layers of said plurality of paper layers (col. 2 lines 63-67) a plurality of second fiber strands extending in a second direction between said any two adjacent layers of said plurality of paper layers (col. 2 lines 63-67), a binding composition disposed between said any two adjacent layers of said plurality of paper layers, said composition retaining said plurality of said first and second fiber strands in said directions and binding said strands between said any two adjacent paper layers

and further binding said any two adjacent paper layers to each other (col. 2 line 65 teaches lamination).

Breen fail to disclose polyvinyl alcohol fiber strands and a polyvinyl alcohol binding composition.

Inomata et al. teaches reinforced tape comprising two layers of paper, reinforcing threads of polyvinyl alcohol and polyvinyl alcohol laminating adhesive that is used to laminate upper and lower paper layers together (col. 2 lines 5-51) for the purpose of providing a water soluble adhesive and a water soluble thread in order to create a regeneratable thread reinforced gummed tape (col. 2 lines 2).

Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide, Breen with polyvinyl alcohol fiber strands and a polyvinyl alcohol binding composition in order to provide a water soluble adhesive and a water soluble thread so as to create a regeneratable thread reinforced gummed tape (col. 2 lines 2) as taught by Inomata et al.

As to claim 3, Breen discloses wherein said binding composition is disposed between said plurality of paper layers binding all of said paper layers and said fiber strands into a single, multi-layered composite sheet (col. 2 line 65 teaches lamination).

As to claim 4, Breen discloses wherein said all of said first fiber strands extend in a same first direction and all of said second fiber strands extend in a same second direction (figure 1 number 19 and 21).

As to claim 5, Breen discloses wherein a portion of said plurality of second fiber strands extend across said first fiber strands in a third direction (figure 1 number 21).

As to claim 6, Breen discloses wherein a first portion of said second fiber strands extends diagonally across said first fiber strands in a first diagonal direction and a second portion of said second fiber strands extends diagonally across said first fiber strands in a second opposite diagonal direction (figure 1 number 21).

4. Claims 7 and 8 rejected under 35 U.S.C. 103(a) as being unpatentable over Breen and Inomata et al. in view of Abrams et al. (2348687).

Breen discloses the reinforced paper described above. As to claim 7, Breen fail to disclose wherein an outermost first and second paper layer is covered with a composition selected from the group consisting of a water proofing treatment composition, a corrosion proofing treatment composition, a thermal insulating composition, a fire retardation composition, and an abrasion resistance composition. As to claim 8, Breen fail to disclose wherein an outermost one of said plurality of paper layers is covered with a composition selected from the group consisting of a water proofing treatment composition, a corrosion proofing treatment composition, a thermal insulating composition, a fire retardation composition, and an abrasion resistance composition.

Abrams et al. teaches compositions used to coat paper for the purpose of providing a waterproof coating (col. 2 lines 35 and col. 3 lines 17-20).

Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide an outermost first and second paper layer is covered with a composition selected from the group consisting of a water

proofing treatment in order to waterproof the tag as taught by Abrams et al. (col. 5 line 65).

Response to Arguments

5. Applicant's arguments with respect to claims 1-8 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

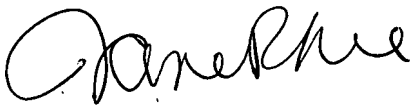
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jane Rhee whose telephone number is 571-272-1499. The examiner can normally be reached on M-F 9-6.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Jane Rhee
September 6, 2007